INDICATION REQUIREMENTS FOR AIR CONDITIONING CONDENSATE DRAINS

Indirect Waste Connections.

Condensate from air cooling coils and the overflow from evaporative coolers and similar water supplied equipment shall be collected and discharged to an approved plumbing fixture or approved disposal area.

A. An approved plumbing fixture for the purposes of this section shall be:
   1. An approved trapped and vented receptor connected to a sanitary sewer.
   2. A downspout that terminates in an approved disposal area.

B. An approved disposal area for the purposes of this section shall be:
   1. A dry well with a rock fill 12"\( \phi \) x 36" Deep
   2. A planted area large enough to accept the discharge waste.
   3. A storm drain system.

Installation of Condensate Piping.

The installation of condensate piping shall be as follows:

1. Slope - The drain shall have a slope of not less than 1/8 inch per foot and shall be approved corrosion resistant pipe not less in size than 3/4 of an inch for air cooling coils and not less than the drain outlet size for evaporative coolers or other equipment.

2. Public Way - Condensate or wastewater shall not drain over a public way. For the purpose of this section, public way shall include sidewalks and driveways.

3. Materials (pipe) - Approved corrosion resistant pipe for the purpose of the section shall be: ABS-DWV, cast iron, Durham Systems, hard drawn copper, PVC-DWV, and Schedule 40 PVC plastic piping.

4. Materials (fittings) - Short pattern 90-degree ells are prohibited. Use only recess pattern fittings. Drainage pattern fittings are required for piping 1 1/4 inches or larger.

5. Traps - A trap shall be installed in the condensate line at the evaporator unit when required by the manufacturer’s installation instructions.

6. Cleanouts - The installation and location of cleanouts in condensate drain lines shall conform to the manufacturer’s installation instructions. In the absence of such specifications in the installation instructions, an accessible cleanout shall be required at the unit. Plugged tees, union connections, or short clamped hose sections at the unit are all acceptable cleanouts. Main condensate piping receiving condensate waste from more than one evaporator outlet shall be provided with an accessible cleanout at each change of direction.

7. Hangars and Supports - All condensate piping shall be supported so as to maintain a straight alignment, a uniform slope, and intervals required by the Uniform Plumbing Code.

8. Thermal Expansion - Allow for thermal expansion and movement in all plastic piping installations by the use of approved methods. Support, but do not rigidly restrain, piping at branches or changes of direction. Do not anchor rigidly in walls. Holes through framing members shall be adequately sized to allow free movement.

9. Protection from Damage - Plastic piping passing through wood studs or plates shall be protected from puncture by a minimum 1/16-inch thick steel plate. All plastic piping shall be protected from concrete form oil, direct sunlight, and mechanical damage.
10. Piping Size - Pipe size shall be as shown in the following table:

<table>
<thead>
<tr>
<th>Equipment Capacity</th>
<th>Minimum Condensate Drain Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 20 tons of refrigeration</td>
<td>3/4 inch</td>
</tr>
<tr>
<td>21 to 40 tons of refrigeration</td>
<td>1 inch</td>
</tr>
<tr>
<td>41 to 90 tons of refrigeration</td>
<td>1 1/4 inch</td>
</tr>
<tr>
<td>91 to 125 tons of refrigeration</td>
<td>1 1/2 inch</td>
</tr>
<tr>
<td>126 to 250 tons of refrigeration</td>
<td>2 inches</td>
</tr>
</tbody>
</table>

Size of condensate drains may be for one unit or a combination of units or as recommended by the manufacturer.

**Secondary Condensate Control.**

Additional condensate control is required when a cooling coil or cooling unit is located in an attic or furred space where damage may result from condensate overflow. This control shall be provided by an additional watertight pan of corrosion resistant metal installed under the cooling coil or unit to catch overflow condensate due to a clogged primary condensate drain. One pan with a standing overflow and a separate condensate drain may be used in lieu of the secondary drain pan. The additional pan or the standing overflow shall be provided with a drainpipe, 3/4-inch minimum pipe size, discharging at a point that can be readily observed.